

Appendix RF Test Data for BLE

Company: : ZhuNiYunJi Technology Co., Ltd.

EUT : Quillink Smart Pen

FCC ID: : 2BWM6-ZNYJ-810

Model Number : ZNYJ-810

Report No. : HTT202605957F01

Reviewed By : Heber He

1. Duty Cycle

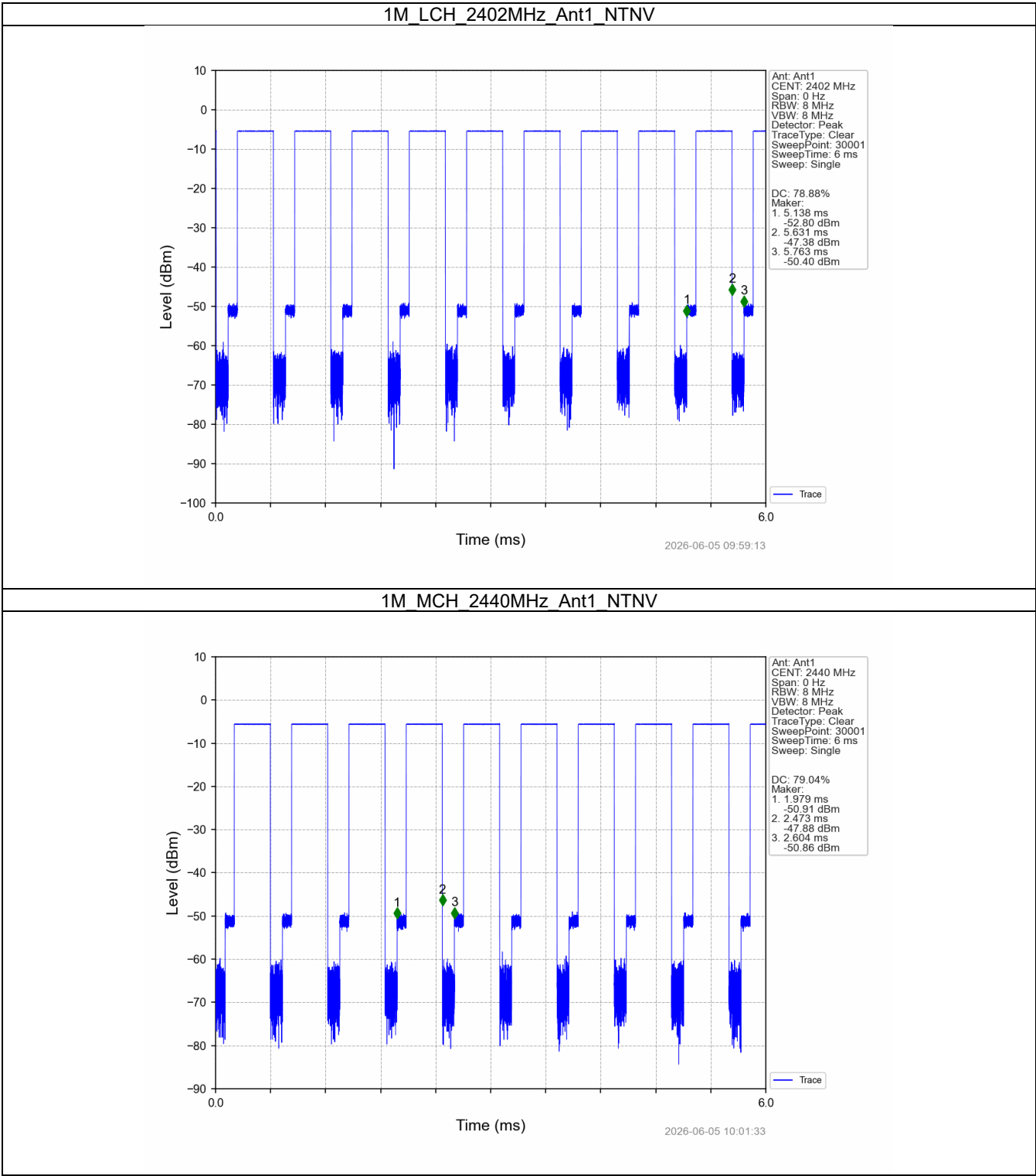
1.1 Test Result

1.1.1 Ant1

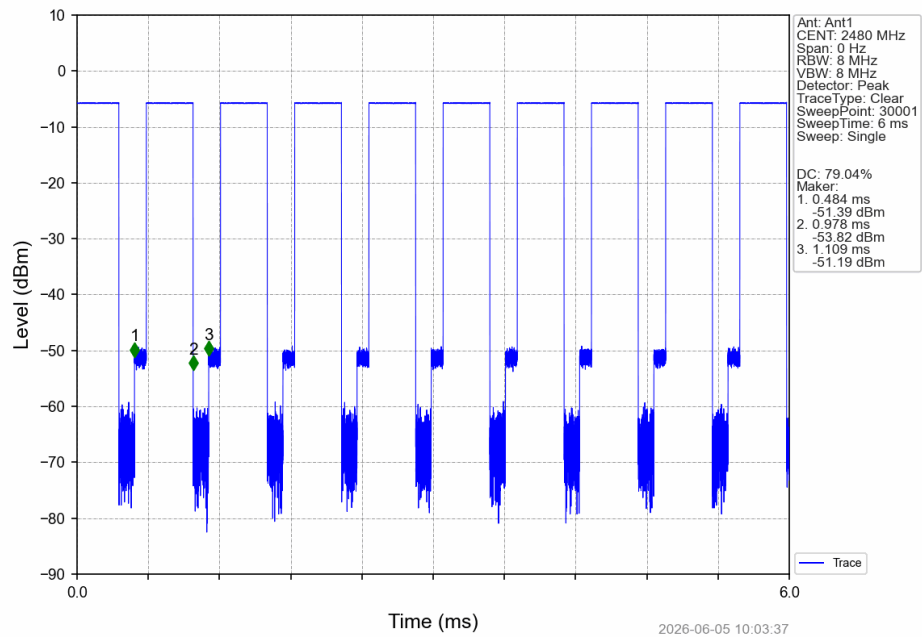
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.493	0.625	78.88	1.03	0.03
		2440	0.494	0.625	79.04	1.02	0.03
		2480	0.494	0.625	79.04	1.02	0.00

1.2 Test Graph

1.2.1 Ant1



1M_HCH_2480MHz_Ant1_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

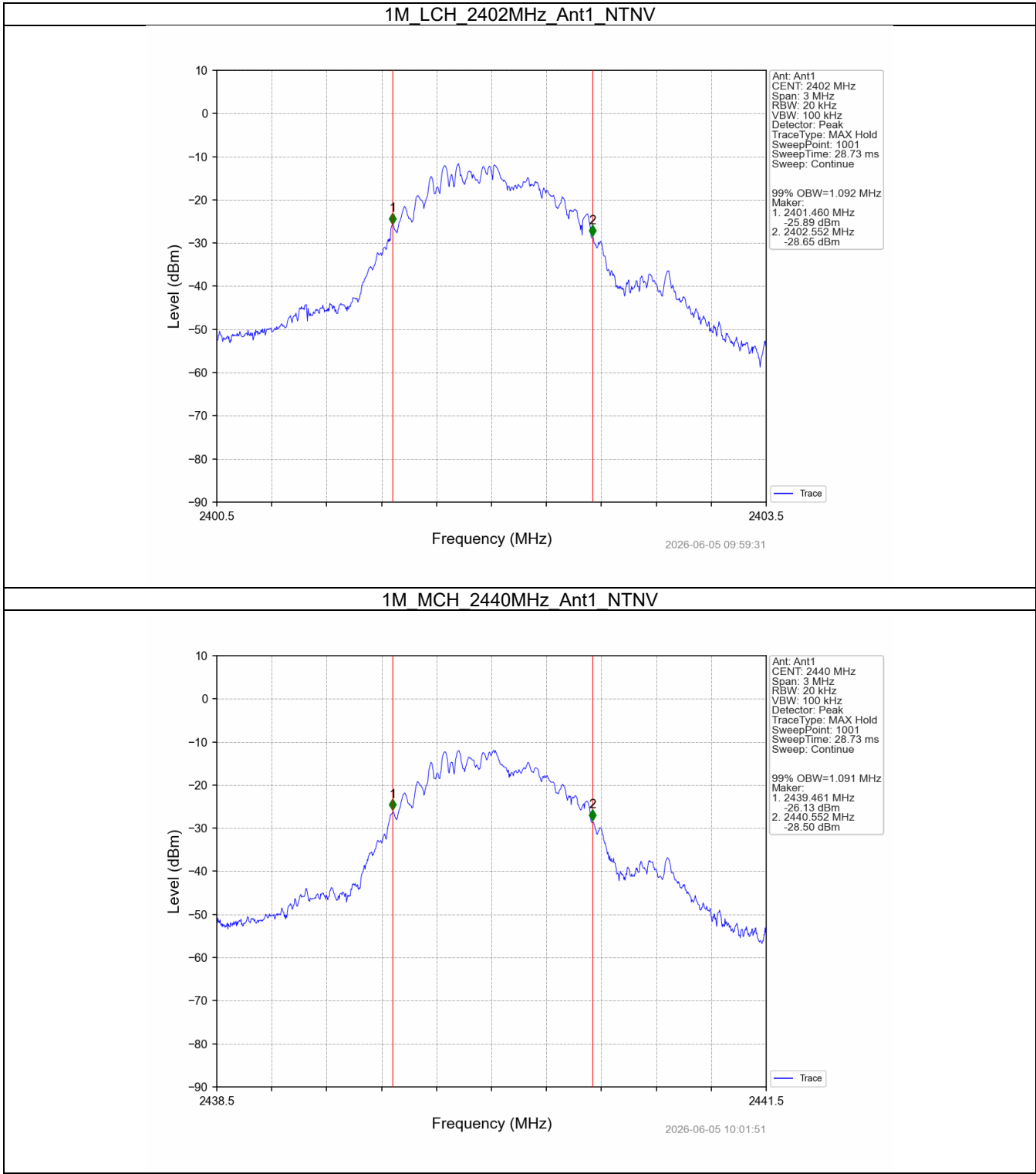
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.092	/	Pass
		2440	1	1.091	/	Pass
		2480	1	1.088	/	Pass

2.1.2 6dB BW

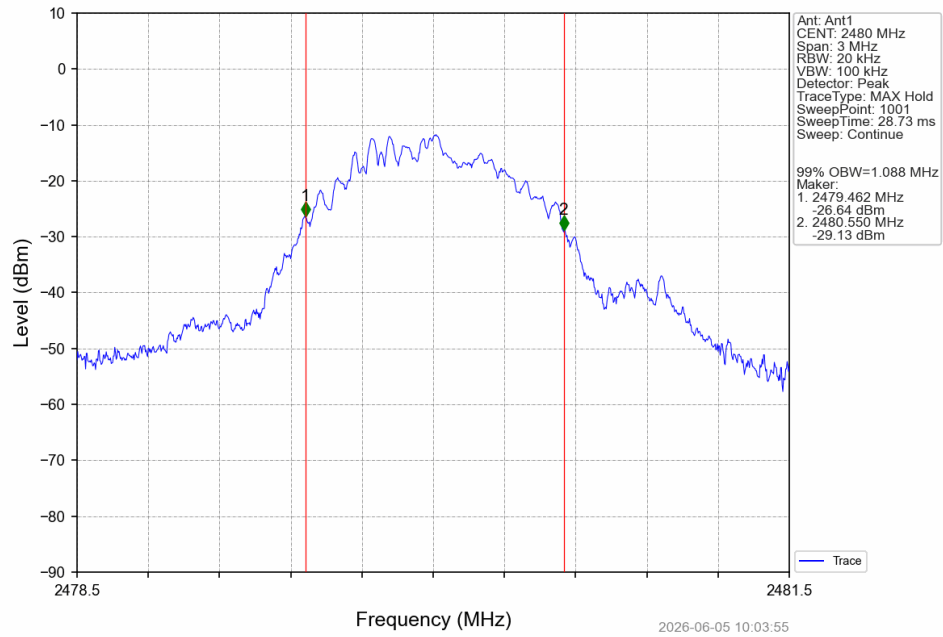
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.698	≥ 0.5	Pass
		2440	1	0.688	≥ 0.5	Pass
		2480	1	0.700	≥ 0.5	Pass

2.2 Test Graph

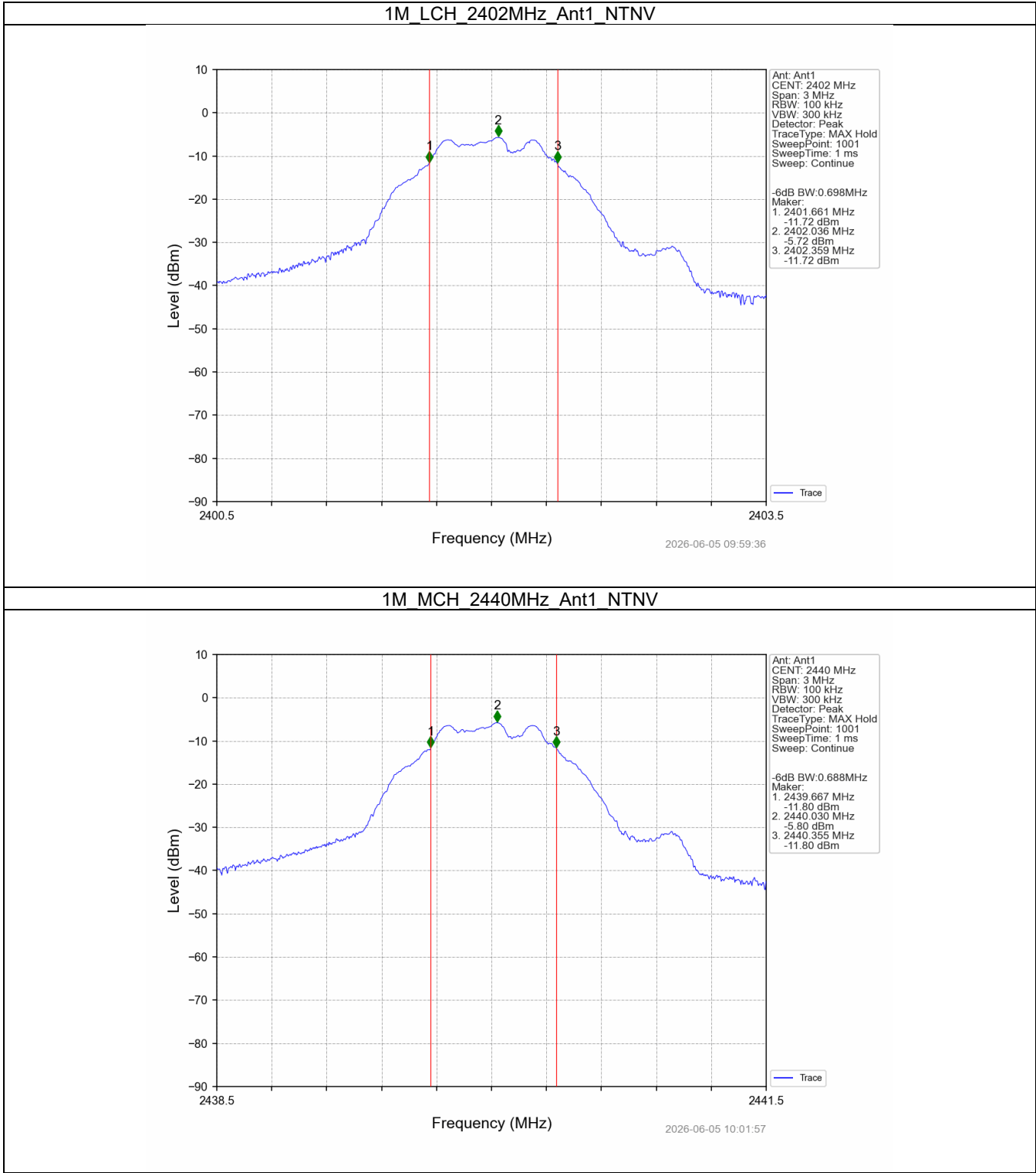
2.2.1 OBW



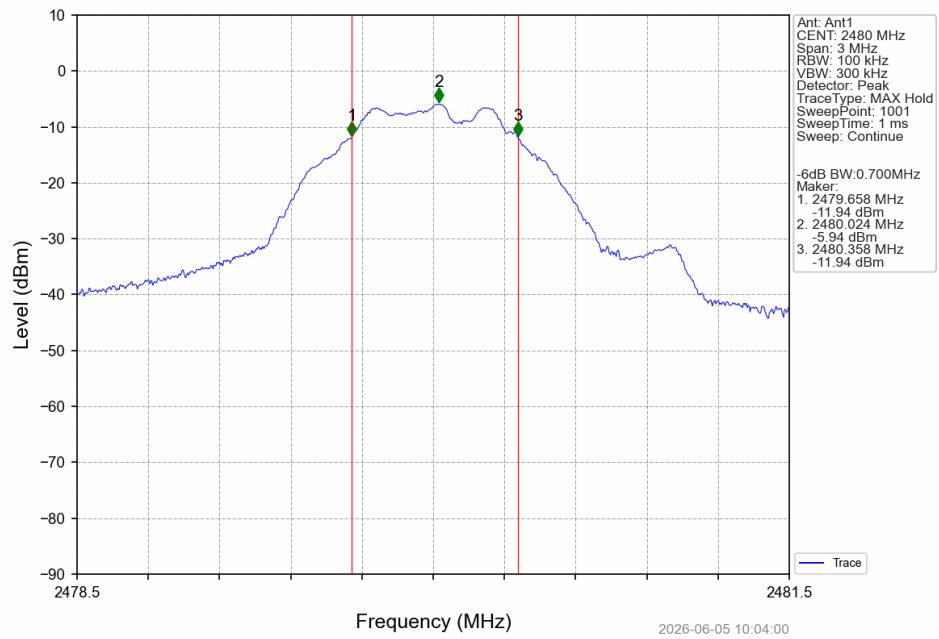
1M_HCH_2480MHz_Ant1_NTNV



2.2.2 6dB BW



1M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-5.43	<=30	Pass
		2440	-5.58	<=30	Pass
		2480	-5.73	<=30	Pass

4. Maximum Power Spectral Density

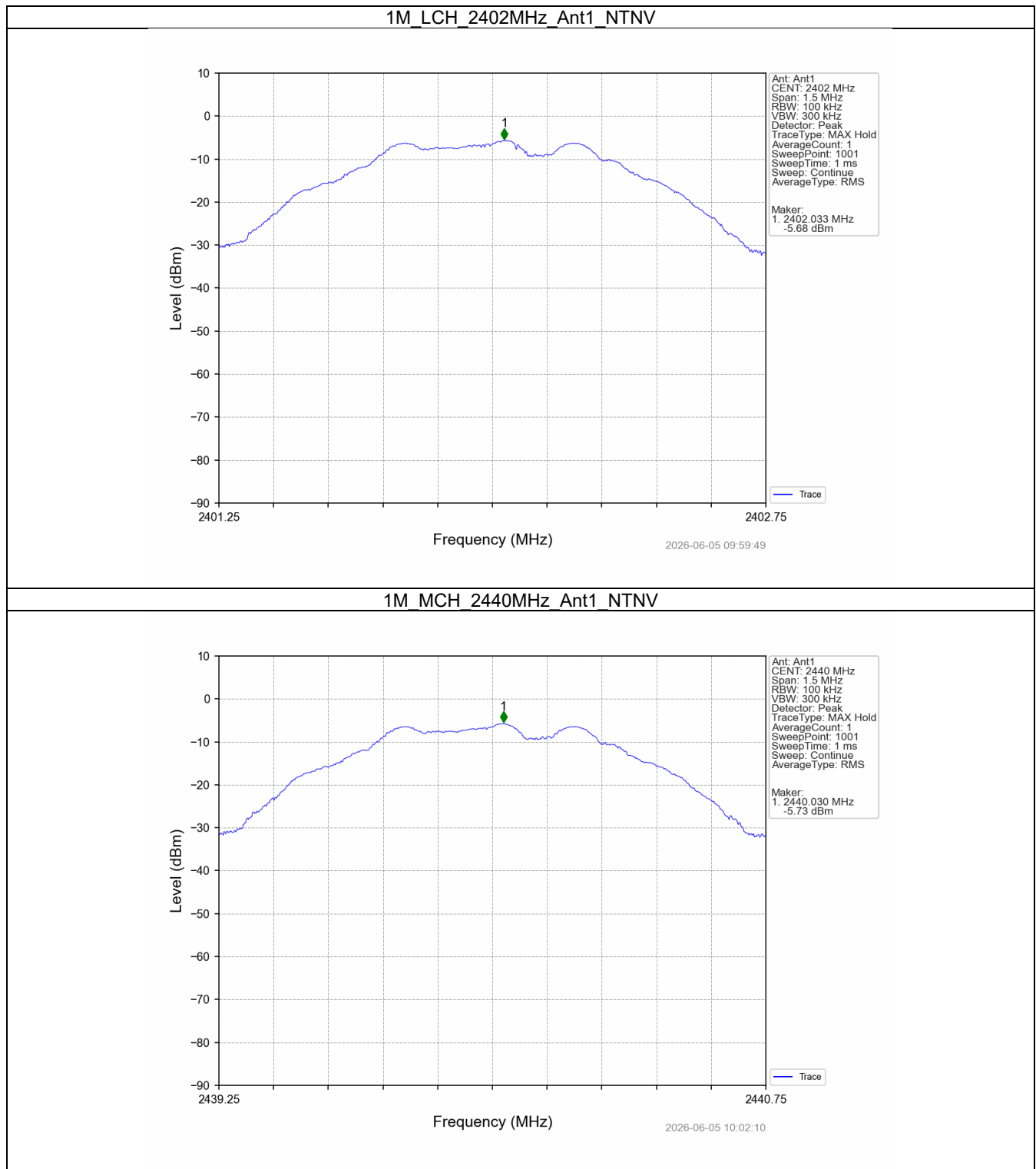
4.1 Test Result

4.1.1 PSD

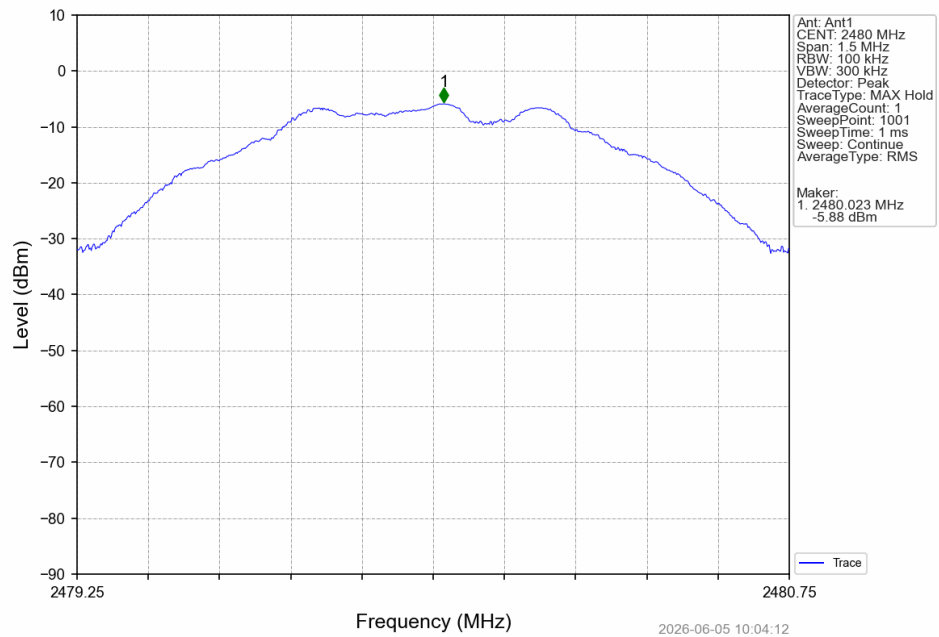
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	-5.68dBm/100kHz	<=8	Pass
		2440	-5.73dBm/100kHz	<=8	Pass
		2480	-5.88dBm/100kHz	<=8	Pass

4.2 Test Graph

4.2.1 PSD



1M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

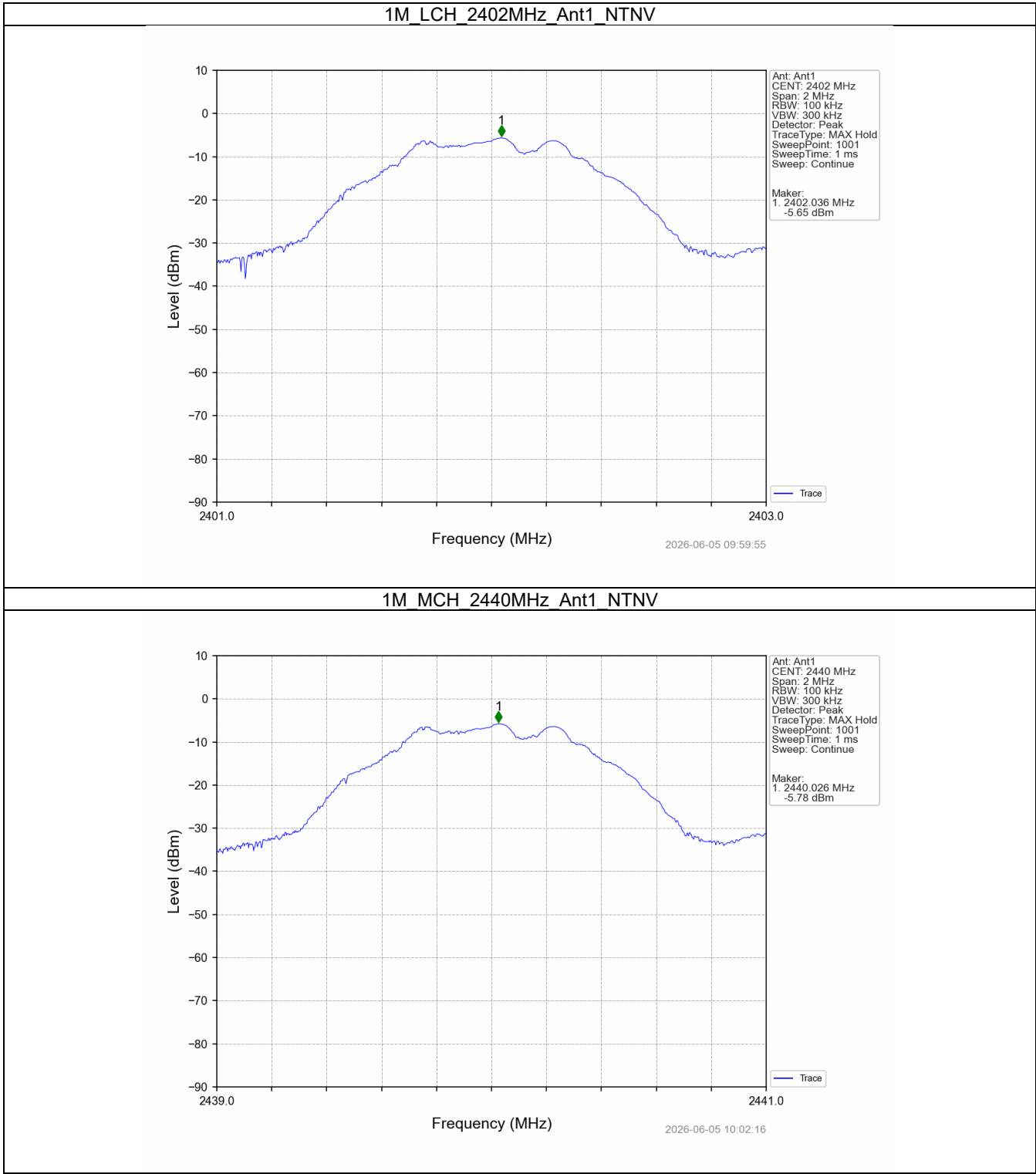
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-5.65
		2440	1	-5.78
		2480	1	-5.90

5.1.2 CSE

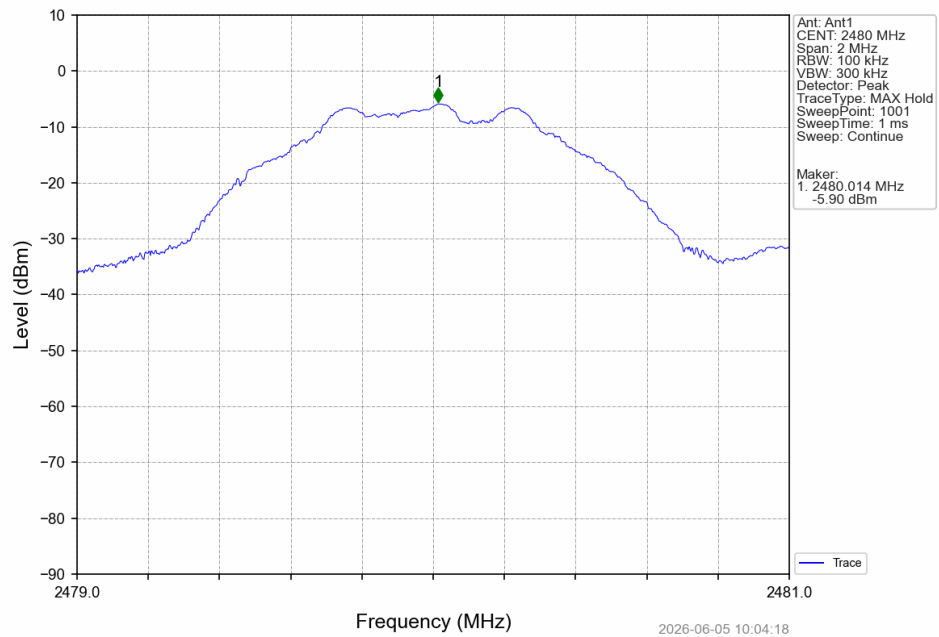
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-5.65	-25.65	Pass
		2440	1	-5.78	-25.78	Pass
		2480	1	-5.90	-25.90	Pass

5.2 Test Graph

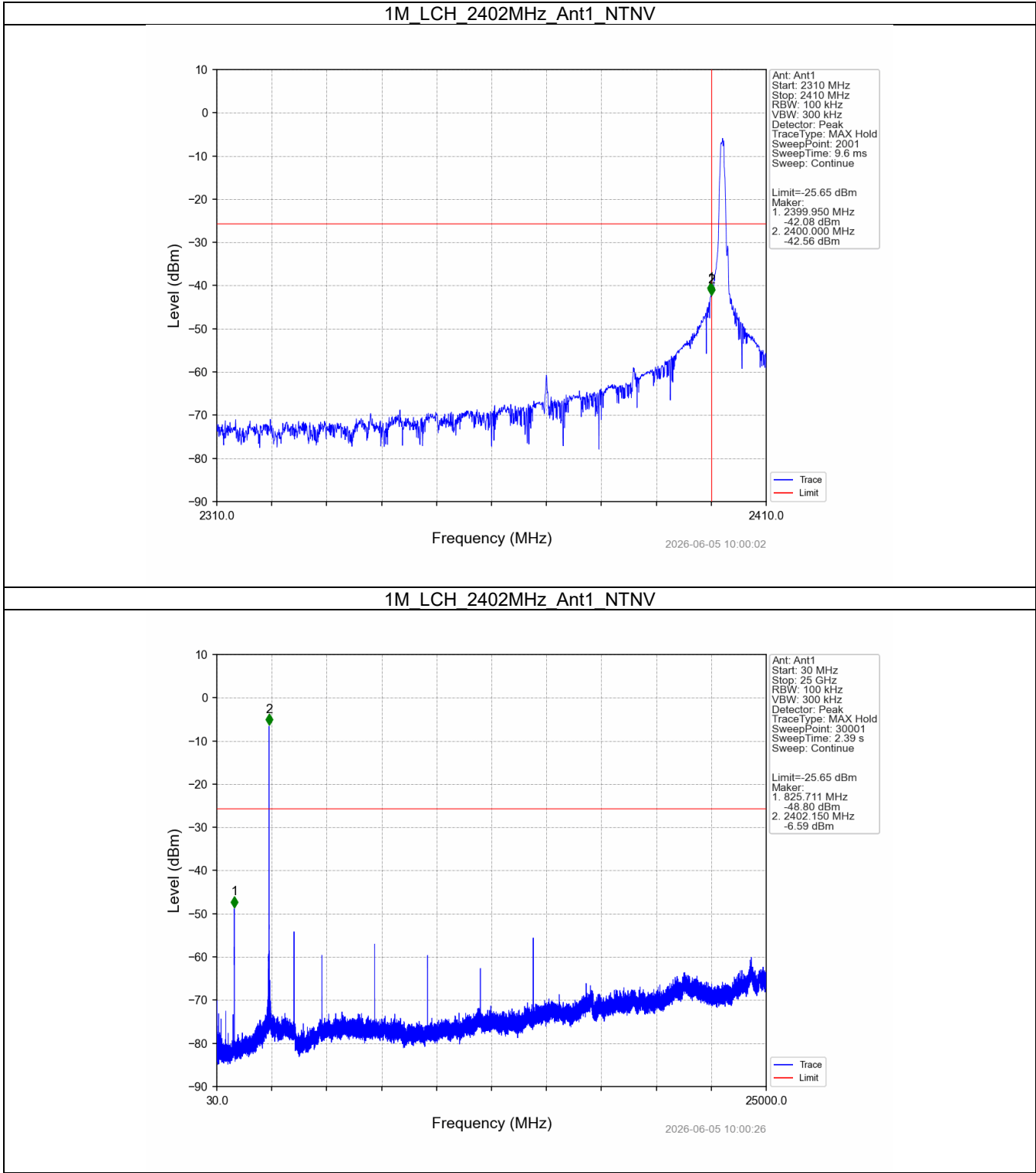
5.2.1 Ref



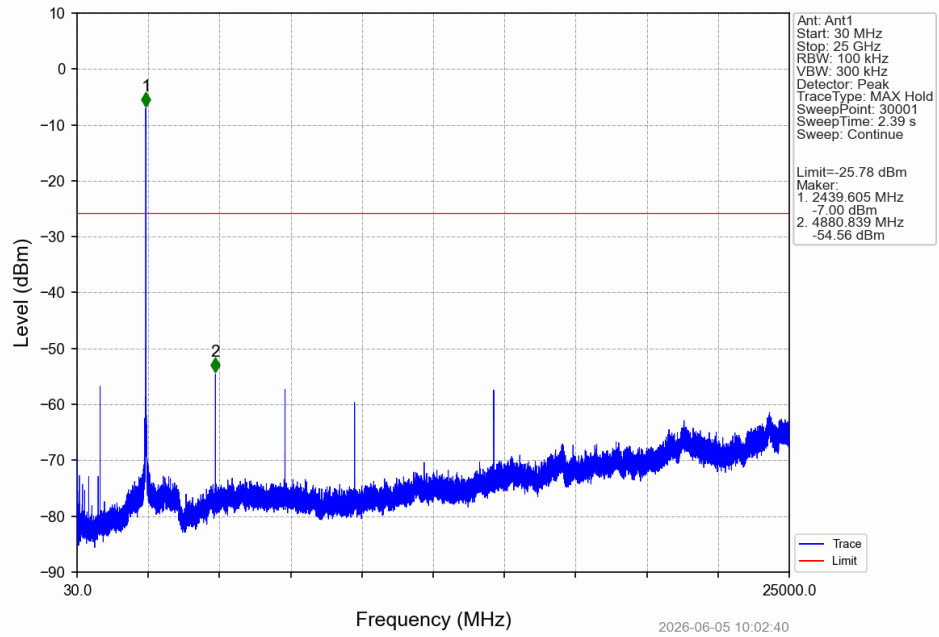
1M_HCH_2480MHz_Ant1_NTNV



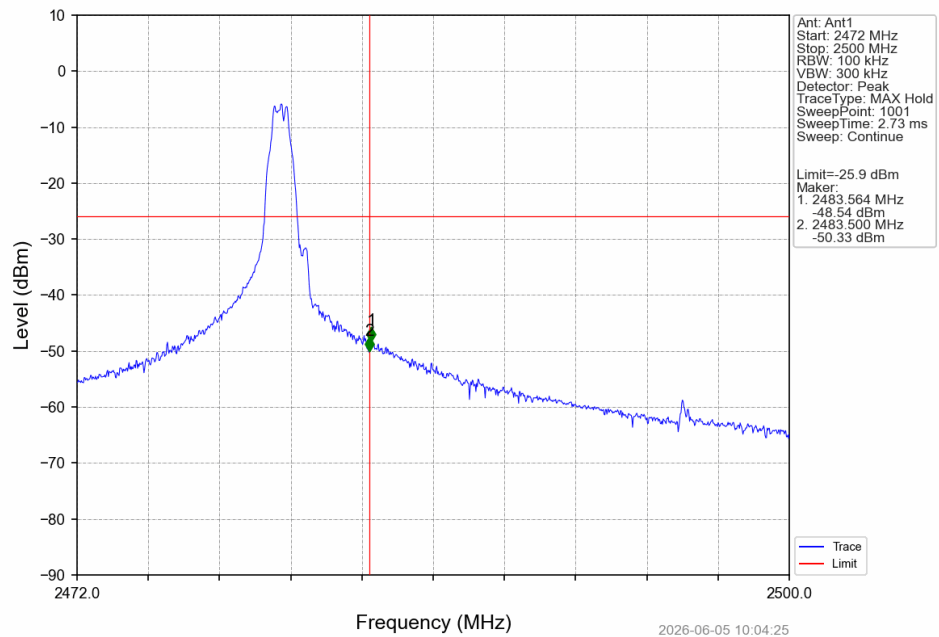
5.2.2 CSE



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

